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INTELLIGENCE ADVISORY COMMITTEE

Report on Inspection Problems Involved in Possible

US-USSR Agreement Banning Production and

Deployment of Long-Range Ballistic Missiles

References:

IAC-D-119, 26 May 1958 IAC-D-119/1, 3 July 1958 IAC-M-351, item 3

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11 July 1958
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CENTRAL INTELLIGENCE AGENCY Washington, D. C. Office of the Director

10 July 1958

Mr. Philp J. Farley
Special Assistant to the Secretary of State
Department of State
Washington, D. C.

Dear Mr. Farley:

I am forwarding two copies of a report on "Problems and Feasibility of an Inspection Program for a Possible US-USSR Agreement to Ban Production and Deployment of Long Range Ballistic Missiles," which was prepared to meet a specific requirement of the Department of State, as outlined in your letter to me of 23 May.

This paper was drafted by an ad hoc working group of technical experts, including a number of Department of Defense officers and representatives of missile contractors who are not associated with the intelligence community. Consequently, this report should not be considered or used as an intelligence paper which has been formally approved by the Intelligence Advisory Committee or the Central Intelligence Agency.

I wish also to note that, during their discussion of this paper at the IAC meeting on 8 July, various IAC members emphasized that this report should be treated as one prepared solely to meet a specific request, and that certain statements contained therein should be used with caution and only in the context of the entire report. It was pointed out, for example, that the validity of the assumption in the footnote to paragraph 4 b would depend on the extent to which many pertinent factors were taken into account, including: number and location of targets, degree of hardness of bases, dispersal and alert status of defense forces, defense and early warning systems, yield of weapons, CEP, reliability of ICBM systems and the nature and effectiveness of other available weapons systems.

Sincerely,
/s/
Allen W. Dulles
Director

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9 July 1958

FOREWORD

The material in this study is based on a symposium held at CIA on 9 and 10 June 1958 and on supplementary discussions held during the month of June. Tab A is a list of individuals who participated in the symposium and discussions. These individuals contributed significantly to the substance of this report; the opinions, conclusions and recommendations included herein are the views of members of the task force. Therefore, this report should not be considered or used as an intelligence paper which has been formally approved by the Intelligence Advisory Committee or the Central Intelligence Agency.

Tab C is an annotated agenda for the symposium and Tab D is a summary of a briefing presented at the symposium covering those aspects of the USSR and its long range ballistic missile program appropriate to the problem at hand.

The findings in this report are considered to be preliminary.

T-O-P 8-E-C-R-E-T

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- 4. FACTS BEARING ON THE PROBLEM:
- e. National Intelligence Estimates* imply that the USSR could have available the following long range ballistic missiles:

Range	Time	Number
700 ma	1960	700
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b. The attainment of the capability to neutralize the US SAC**
retaliatory forces through attack by long range ballistic
missiles would represent such a military advantage to the
USSR as to encourage the deliberate evasion of a US-USSR
inspection agreement, particularly if coupled with the
development of a highly effective Soviet air defense system
against manned bombers. Furthermore, the desire to achieve
a significant operational capability in anticipation of an
inspection agreement may be so great that the USSR might
bend every effort to attain the desired strike capability
earlier than estimated (see 4.a. above) and might delay
completion of an inspection agreement until this is
accomplished. However, the USSR would know that US detection
of evasion - or even a strong suspicion of evasion - would
raise grave dangers of strong US reaction.

5. DISCUSSION:

a. In considering the problem it is necessary to distinguish between the activities and facilities involved in the production and deployment of long range ballistic missiles under normal conditions and those involved under conditions of an inspection agreement. Many of the activities which would be carried out under normal conditions are almost unique to these types of activities and could be detected by an inspection system; however, under conditions of an inspection agreement, many of these unique activities would be eliminated, and the concealment of others could be attempted.

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Solely for the purposes of this paper it is assumed that roughly 200 to 500 long range ballistic missiles together with the requisite launching capabilities sufficient to salvo this number of weapons would be a likely Soviet requirement to neutralize SAC. The current and projected medium bomber capabilities supplemented by long range ballistic missiles would be needed to neutralize the NATO retalistory force.

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INTELLIGENCE ADVISORY COMMITTEE

Report on Inspection Problems Involved in Possible

US-USSR Agreement Banning Production and

Deployment of Long-Range Ballistic Missiles

References: IAC-D-119, 26 May 1958 IAC-D-119/1, 3 July 1958 IAC-M-351, item 3

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JOHN HEIRES Secretary

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/s/
Allen W. Dulles
Director

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9 July 1958

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ICEM	1960 1961-2	100 500

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INTELLIGENCE ADVISORY COMMITTEE

PROBLEMS AND FEASIBILITY OF AN INSPECTION PROGRAM FOR A POSSIBLE US-USSR AGREEMENT TO BAN PRODUCTION AND DEPLOYMENT OF LONG RANGE BALLISTIC MISSILES

- 1. The attached report was prepared by a special working group under the chairmanship of CIA, in order to meet a requirement of the State Department, as outlined in IAC-D-119, 26 May, and discussed at the IAC meeting on 27 May (IAC-M-343, item 4).
- 2. According to the "Foreword" to this report, it is to be considered a CIA reply to the Department of State request and is not intended to be an agreed or coordinated intelligence paper. However, the IAC members indicated that they desired to be kept appropriately advised regarding this working group's activities. This report has therefore been placed on the agenda of the 8 July IAC meeting, for noting.

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JOHN HEIRES
Secretary

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1. PROBLEM:

To explore the feasibility of developing an inspection program designed to disclose any significant Soviet violation of a possible US-USSR agreement to ban the production and deployment of long range ballistic missiles. Specifically,

- a. To estimate the type of inspection system that would be needed for a high level of assurance.
- b. To recommend what other studies should be carried out and by whom.

2. CONCLUSIONS:

- a. An inspection system can be designed to disclose any significant Soviet violation of a possible US-USSR agreement to ban the production and deployment of long range ballistic missiles. Such a system as described in paragraph c. below eculd be assigned a reliability of 75% to 90%. Since the elements of this system are mutually reinforcing, the elimination or a reduction in scope of many of these elements would severely decrease the reliability assigned to the system as a whole. This is particularly true of element c (13).
- b. The earlier the inspection agreement* were concluded, the simpler and more reliable it would be.
- An inspection system with a reliability of 75% to 90% for detecting the production and deployment of a significant missile threat would require the following:
- (1) A ban on the development, production and testing of long range ballistic missiles and rocket engines.
- (2) The prohibition or stringent international control of the development, production, testing or use of vehicles for space operations.

^{*} Throughout this paper the term inspection agreement is used to mean a US-USSR agreement to ban the production and deployment of long range ballistic missiles together with an appropriate inspection system such as defined in paragraph 2c.

T-O-P 8-E-C-R-E-T

- (3) The declaration of existing stockpiles, production facilities and deployment sites for all types of ballistic missiles, including long range, short range and air defense.
- (4) The right to unrestricted access and inspection of these facilities and equipment, both declared and undeclared, to ascertain whether a long range ballistic missile capability is being concealed.
- (5) The destruction or stringent international control of existing long range ballistic missiles and their production and launch facilities. (Existing missiles and facilities might be converted under stringent international control to space exploration purposes.)
- (6) The acquisition of representative samples of production missiles and components for technical analysis.
- (7) The control over materials possibly unique to the production of ballistic missiles (such as special stainless steels and aluminum alloys) if such are established to exist after technical analysis.
- (8) The right to unrestricted aerial and ground inspection to detect possible violations of the agreement.
- (9) The right to unrestricted surveillance of the railroad system and right to inspect suspicious rail shipments.
- (10) The right to unrestricted access to and inspection of naval and merchant vessels to discover clandestine missiles and missile launch facilities.
- (11) The right to unrestricted access to and inspection of shipyards capable of constructing or modifying vessels for launching of missiles.
- (12) The right to unrestricted access to and inspection of any other area, activity, or facility deemed suspicious.
- (13) The right to station on Sino-Soviet Bloc territory the required number of US personnel and technical equipment and US logistic support (transportation equipment, communications, etc.) and freedom of movement needed to implement the inspection agreement.

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(14) The application of the system outlined above to the entire Sino-Soviet Bloc.

3. RECOMMENDATION:

If the Department of State deems that the problem merits further consideration, it is recommended that the following studies be undertaken:

- a. The size, number and composition of inspection teams, technical equipment, their logistic support, transportation, communications, etc., needed to implement the inspection system. This could be based on the intelligence on the Sino-Soviet Bloc, particularly its missile program and likely target areas.
- b. The technical feasibility, requirements and problems of imposing a comparable system on the US and other NATO countries in order to assess similar aspects of the inspection agreement which might be encountered in imposing such an inspection system on the Sino-Soviet Bloc.
- c. The degradation of the high assurance level which would result from a reduction in scope of the inspection system described above.
- d. The techniques and facilities outside the inspection system needed to give assurance that violations of the agreement, or its intent, are detected.
- e. The feasibility, requirements and problems involved in processing, transmitting, and interpreting the information acquired by the inspection system.
- The degree of aerial inspection required under such an agreement.
- g. The fessibility and problems of designing a program of space exploration under international control which will minimize the diversion of space development results, space vehicles, and their production and launch facilities for long range ballistic missile purposes.

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- c. We estimate that roughly 200 to 500 long range ballistic missiles together with the requisite launching capabilities sufficient to salvo this number of weapons would be a likely Soviet requirement to neutralize SAC. The current and projected medium bomber capabilities supplemented by long range ballistic missiles would be needed to neutralize the NATO retalizory forces.

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T-O-P S-E-C-R-E-T

b. The great uncertainties concerning developments in weapons systems in the distant future has caused us to limit the discussion of the problem to the period 1959 to 1963. Although some of the factors pertinent to the problem within this time period are not greatly effected by the passage of time, some are of a more transitory nature and are more applicable to the immediate future, while others become more important the longer the effective date of an inspection agreement is delayed. The discussion which follows is therefore divided into three parts:

Considerations whose importance is little effected by time Considerations whose importance decreases with time Considerations whose importance increases with time

c. Considerations whose importance is little affected by time:

too severely.

(1) Unrestricted development, production and testing of engines and vehicles for "peaceful" space exploration could facilitate the clandestine production and improvement of operational missiles and the development of new missile systems. A ban on space exploration would certainly contribute to a highly reliable inspection system. It is, however, conceivable that a space exploration program under stringent international control could be developed which would not degrade the reliability of the overall inspection system

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- (5) If technical analysis of representative samples of Soviet production missiles and components revealed the use of unique materials (such as special stainless steels and aluminum alloys), control over these materials would make evasion of the inspection agreement more difficult.
- (6) It is feasible to adapt short range ballistic missiles (by proper clustering and staging) so as to achieve long range ballistic missile capabilities. Therefore, the inspection of short range ballistic missile production and deployment facilities would constitute an important element of an effective inspection agreement.
- d. Considerations whose importance decreases with time:
- (1) It is unlikely that the Soviet missile industry is now organized to permit evasion of an inspection agreement. It is probable that many of the components (except for electronics) of Soviet long range ballistic missiles are currently produced in the same plants which produce missile engines and airframes. The Soviet managerial incentive systems tend to create a large centralized industrial establishment in which many of the components which go into one end item are produced within the same complex.
- (2) Soviet long range ballistic missile systems are probably now based on non-storageable liquid fuels and radio-inertial guidance. These characteristics are somewhat more amenable to inspection than later developments considered under eabeloy.
- (3) We believe that the USSR does not now have in being the long range ballistic missile capability described in 4. c. above. Since fixed and hardened long range ballistic missile launch sites are most easily detected while being constructed, an inspection agreement effective in the near future would be far more likely to reveal clandestinely constructed launch facilities.

- e. Considerations whose importance increases with time:
- (1) As time passes the USSR could develop new long range ballistic missile systems and increase the reliability of these systems significantly. Storageable liquid fuels and completely inertial guidance systems could be introduced and large numbers of these weapon systems could be produced and deployed in the later part of the period under consideration. The longer a possible inspection agreement is delayed, the lower is the confidence which can be assigned any inspection system.
- (2) Since long range ballistic missile launch sites are most amenable to inspection during construction, considerable delay in the effective date of an inspection agreement would increase the likelihood of constructing, equipping and concealing fixed sites before the agreement becomes effective.
- (3) Although under normal circumstances the test firing of production engines and missiles would be indicative of production and could be detected, with the passage of time ballistic missiles and their engines could become so reliable that they could be produced and "cold" tested with little degradation in reliability under an inspection agreement.
- (4) With the passage of time other means of violating an inspection agreement could be developed. Ballistic missiles could be deployed and operated from submarines and merchant vessels in the future. It is also possible to adapt short range and air defense missiles and facilities to accomplish part of the long range missile mission.
- (5) If significant numbers of wissiles were already deployed and concealed before the inspection agreement were reached, they would be subject to deterioration over time. The confidence which Soviet military commanders could have in the performance of these missile systems and their launching crews would decrease, especially if these systems could not be tested and their crews trained by practice live firings.

TAB A

Participants in the Symposium and Subsequent Discussions

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25X1	Col. E. N. Hall, USAF Col. R. K. Jacobson, USAF	ARDC, END ARDC, END	\3\ (6)
25/(1	Mr. M. E. Jenkins Col. E. McFarland, Jr., UBAF	ABC GACIC	(7) (7)
25X1	Mr. H. D. Owen	State CIA	(3) (1, 2, 5) (3)
	Col. T. A. Rodgers, USA Mr. W. A. Smith	OCRO OED	(3) (1) 25X1
	Mr. L. D. Weiler Cmd. C. G. Welling, USS	State OFD-#	(4) (1)
25X1	Col. J. A. Wetzel, UBAF	ARDC, 1960	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Col. N. W. Wood, USA	DCS-OPS	(1)

Notes:

- 1. Symposium at CIA, 9 and 10 June 1958.
- 2. Discussions in San Diego, California, on 19 June 1958.
 3. Discussions in Philadelphia, Pennsylvania, on 17 June 1958.
 4. Symposium at CIA, 10 June 1958
 5. Discussions at AF Bell Maison Office, The Pentagon, 11 June 1958.

- 6. Discussions at ARDC, 1960, Ingalwood, California, 18 June 1958.
- 7. Symposium at CIA, 9 June 1958.

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S-E-C-R-E-T

Special Assistant to the Secretary of State Washington

May 23, 1958

Dear Mr. Dulles,

The Department of State is currently examining the problems involved in a possible US-UBSR agreement to ben the production and deployment of long range ballistic missiles. In order to explore these problems it is necessary to evaluate the feasibility of developing an inspection program designed to disclose any Soviet violations of the agreement.

On the basis of preliminary conversations with representatives of your agency, it was concluded to approach the problem of inspection in the following manner:

- a. Select a group of individuals from government knowledgeable on the subject.
 - b. Convene a symposium of these individuals.
- c. Prepare a report summarising the pertinent conclusions of the meeting.

I should like to request, if in your view it is feasible, that CIA act as executive agent for this undertaking. The Department will assist in any way possible, especially in obtaining the services of individuals who may be selected.

Sincerely yours,

Philip J. Farley

The Honorable

Allen W. Dulles, Director, Central Intelligence Agency.

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T-O-P S-E-C-R-E-T

PROBLEMS AND FEASIBILITY OF AN INSPECTION PROGRAM FOR A POSSIBLE US-USER AGRESMENT TO BAN PRODUCTION AND DEPLOYMENT OF LONG RANGE BALLISTIC MISSILES

WARRIEG

THIS MATERIAL CONTAINS INFORMATION AFFECTING THE MATERIAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPICIFICACE LAWS, TITLE 18, USC, SECS. 793 AND 794, THE TRANSMISSION OR REVELATION OF VINITE IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

CENTRAL INTELLIGENCE AGENCY

T-O-P S-E-C-R-E-T

T-O-P S-E-C-R-E-T

3 July 1958

FOREWORD

The material in this study is based on a symposium held at CIA on 9 and 10 June 1958 and on supplementary discussions held during the month of June. Tab A is a list of individuals who participated in the symposium and discussions. These individuals contributed significantly to the substance of this report; however, the opinions, conclusions and recommendations included herein are the responsibility of CIA. Therefore, this paper is to be considered a CIA reply to the Department of State request (see Tab B) and is not intended to be an agreed for coordinated intelligence paper.

Tab C is an annotated agends for the symposium and Tab D is a summary of a briefing presented at the symposium covering these aspects of the USSR and its long range ballistic missile program appropriate to the problem at hand.

The findings in this report are considered to be preliminary.

T-O-P S-E-C-R-E-T

Subjects Considered at Symposium and Subsequent Discussions

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Symposium

	TCOM	SDATES.
l.	Introduction	GIA
2.	The Problem Why State Department needs this, where it fits, sensitivity	Mr. Lawrence D. Weiler, State
3•	Outline of the Task What is wanted: Ext to be an "agreed" intelligence paper, just background for State. Not intend to design inspection system at these meekings; just consider feasibility of designing one. Discuss facilities, processes, activities in- volved in producing, deploying and operatingPeculiar to long range ballistic missiles. How "inspectable" are they? By what means (general)? Is problem worth further study? If so, what and how? Re- marks about outline of agenda. Not only what US is doing but other alternatives.	25X1
ħ°	Background on the USSR (See Tab D.)	c/;
5.	Production, Rocket Engines For each of the engines describe facilities involved in production. Procedures and facilities for production testing. How much testing is absolutely necessary?	Propel. 25X1
	a. Liquid Rocket Engines Storable vs non-storable fuels (Atlas, Jupiter, Thor, Titan, Others)	
	 b. Solid Rocket Engines Discuss manufacture of fuels, alternatives. (Polaris, Minuteman, Others) 	
6.	Production, Airframe and Assembly	Parel.

For each of the missiles describe facilities involved in production. Procedures and

facilities for testing.

Speaker Item a. Solid Types (Polaris, Minuteman, Others) b. Liquid Types (Atlas, Jupiter, Thor, Titan, Others) Panel 7. Production, Ground Support Equipment, Guidance, Fuels, Etc. Discuss production of ground support equipment, guidance equipment (inertial) and other), nose come, warhead, transport equipment, liquid fuels (storables vs nonstorables Panel 8. Summation and Recommendations on Production Panel 9. Deployment Ground Consider problems of mobile vs fixed sites, Site selection, Construction (hard vs soft) guidance stations, logistics, maintenance, transportation, storables vs non-storables. lanel 10. Deployment, Submerine and Surface Ships 11. Inspection for production and deployment Panel in an environment of "peaceful" space exploration. Problems of distinguishing vehicles, launch facilities, activities, etc., involved in peaceful rocketry from those involved in attaining strike capability. Military data derivable from peaceful space program. Panel 12. General Discussion, Other Problems Problems of "unique" materials, clustering shorter range missiles, reliability. Panel 13. Summary and Recommendations Should further study be devoted to this. If so, what and by whom? Mecessary conditions for inspection. How reliable would system be? Possibilities for evasion. Inspecting the inspection system. Subsequent Discussions

1. Hose Cone

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Facilities and unique materials, Alternative re-entry concepts.

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- 2. Unique Materials
- 3. Problems and Feesibility of Clustering Shorter Range Missiles Reliability, solids vs liquids.
- 4. Deployment, Mobile vs Fixed Sites.

- 7

Some Aspects of the USSR Pertinent to a Possible Ban on the Production end Deployment of Long Range Ballistic Missiles
(A Briefing Delivered on 9 June 1958)

- 1. In order that you may apply your special knowledge and experience to the problems of long range missile production and deployment in the USSR, I will present some brief remarks about the USSR with respect to its geography, its industrial and scientific base, and the status of its long range ballistic missile program.
- 2. The USSR is about $2\frac{1}{2}$ times the size of the US, and its population is about $20\frac{1}{2}$ greater. Although its climatic conditions vary widely, a large part (about half) of its 7.5 million square miles is subject to permafrost conditions. The green lines on Figure 1 show the areas of the USSR which are subject to permafrost conditions as well as the inland waterways and ports which are subject to fraczing conditions for extensive time periods.
- 3. The economy of the USSR is strong and varied and is second in size to that of the US. Soviet output of goods and services is about 45% of that produced in the US; however, it devotes a much larger share of its output to investment and military activities. In fact, industrial investment in electric power, metallurgical base and producers goods may actually be greater than that of the US this year. Its expenditure on military activities in dollar terms is about equal to ours.
- 4. Although a great part of the output of machinery production is concentrated in the vestern third of the country, there are significant industrial centers along the Transiberian Railroad and on the Pacific Coast. Figure 2 shows the major centers of machine building in the USSR.
- 5. For transportation the USSR depends more beavily on railroads than does the US. The base map of Figure 1 shows the Soviet
 railroad network. In terms of ton-miles, tons originated, and
 locomotives, the USSR is approximately equal to the US and Canada
 put together. However, because of its limited highway network,
 goods moved by motor vehicles is only one eighth that of the US.
- 6. The USSR is expanding its technical and scientific capabilities rapidly, particularly in those areas critical to industrial and military power. Although its over-all scientific capabilities may not be equal to ours, it has been able to make comparable achievements and to forge ahead in some areas of military and industrial significance by concentrating its efforts in these fields. For

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T-O-P S-E-C-R-E-T

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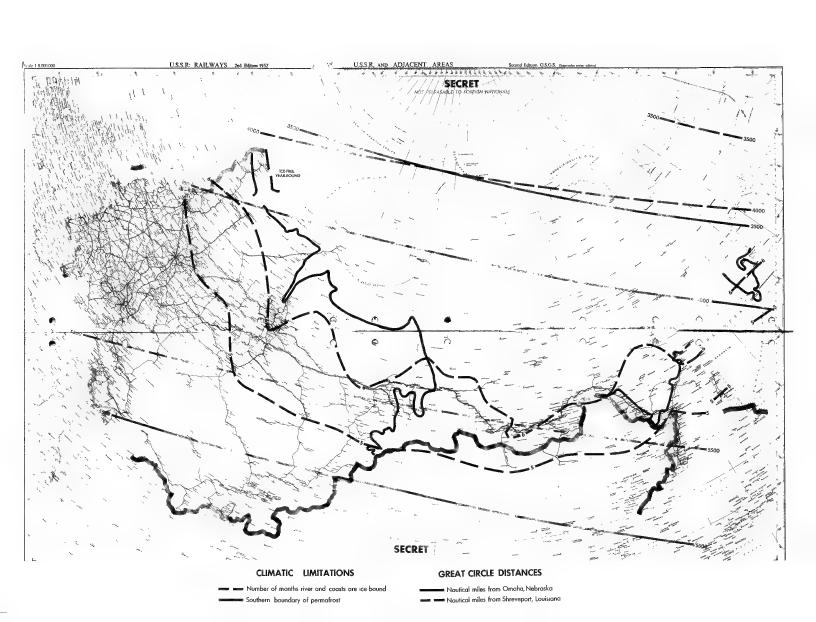
example, the number of university level graduates employed in scientific and technical fields already exceeds that in the US and will be about 40% greater than that in the US in 1962.

- 7. Now that I have presented a broad, though somewhat abbreviated background of the Soviet Union, I will briefly describe our knowledge and estimates of the Soviet long range ballistic missile program, in the fields of testing, production and deployment.
- 8. The history of Soviet guided missile development starts with the thorough exploitation of German scientists and technicians after the Second World War. Building on this knowledge, Soviet scientists and technicians have developed a missile program which has progressed steadily, and have test-fired some 300 to 400 tallistic missiles of ranges of 75 to 1,000 nm and approximately 10 ICEM-carth satellite vehicles to date. I do not have to emphasize to this group what this kind of experience means in terms of current and future capabilities.
- 9. The UBER is using two test ranges for long range ballistic missiles--one extending from the area of Stalingrad to about 1,000 mm east, the other extending from the area of the Aral Sea to about 3,500 mm northeast in the vicinity of the Kamchatka Perinsular. These ranges are well-equipped and probably can support test programs well into the future.
- 10. Although we know that several plants and research institutes in the Moscow-Leningrad area are involved in the Soviet missile program, we have not as yet identified any plants as producers of long range ballistic missiles. Because of the distribution of Soviet industrial facilities, we suspect that much of the missile production program is located in the industrial areas of Central and Siberian UESR, particularly in the Urals focused on Sverdlovsk or in the Movosibirak or Tashkent areas. Any of these areas could supply both the Soviet missile test facilities and the more likely areas for missile launch sites. Furthermore, we should recognize that the extensive post-wer industrial expansion program could have created plants about which we know nothing. These facts serve to emphasize the difficulties which would be involved in an inspection system.
- 11. Although we have no evidence of the existence of any operational ICEM-IREM sites, on the basis of testing activities during 1957 and 1958, we believe that several operational sites could be completed within the next 12 to 15 months, if the program has been properly planned. We believe that the Soviet IREM-ICEM operational concept will be based on the Soviet rail system--that these weapon systems will depend heavily on rail support and may even be rail mobile. The parts of the Soviet rail system most heavily involved in either of these concepts could cover an area of 2 million square miles. The

pink lines on Figure 1 give some indications of the distances and ranges involved between targets in the US and possible launching areas in the USSR.

- 12. The deployment aspect of the submarine launched missile is an extremely difficult problem. Although we do not believe that any of the 500 Soviet submarines are currently equipped to launch long range ballistic missiles, we know the USSR is developing new types of submarines. These may be designed to launch ballistic missiles.
- 13. In summary, the Soviet Union has a strong scientific and technical base which has demonstrated its capabilities in a wide variety of fields including electronics, aircraft and guided missiles. The Soviet industrial base has the capability to support the series production of the long range ballistic missile systems which Soviet scientists and technicians have developed. In addition, we estimate that the Soviet nuclear energy program has progressed to a point where nuclear war heads will doubtless be developed for long range missiles as required.

FIGURE 2 HAS BEEN CHITTED FROM THIS COPY



SECRET

IAC-D-119 26 May 1958 Limited Distribution

INTELLIGENCE ADVISORY COMMITTEE

Inspection Problems Involved in Possible US-USSR

Agreement Banning Production and Deployment

of Long-Range Ballistic Missiles

The attached memorandum from the Department of State, outlining a proposed approach to the inspection problems referred to above, will be discussed at the IAC meeting scheduled for 27 May.

> JOHN HEIRES Secretary

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Attachment

Soit Staff - 2 AEC - 1

FBI- 1 GMIC-2 JARIC-1

SEC-1

State - 2 Abrema (for DEI, DD/I) - 4

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C O P

May 23, 1958

Dear Mr. Dulles,

The Department of State is currently examining the problems involved in a possible US-USSR agreement to ban the production and deployment of long range ballistic missiles. In order to explore these problems it is necessary to evaluate the feasibility of developing an inspection program designed to disclose any Soviet violations of the agreement.

On the basis of preliminary conversations with representatives of your agency, it was concluded to approach the problem of inspection in the following manner:

- a. Select a group of individuals from government knowledgeable on the subject.
 - b. Convene a symposium of these individuals.
- c. Prepare a report summarizing the pertinent conclusions of the meeting.

I should like to request, if in your view it is feasible, that CIA act as executive agent for this undertaking. The Department will assist in any way possible, especially in obtaining the services of individuals who may be selected.

Sincerely yours,

Philip J. Farley

The Honorable
Allen W. Dulles, Director,
Central Intelligence Agency

IAC-D-118 28 April 1958

INTELLIGENCE ADVISORY COMMITTEE

Wider Dissemination of NIS and NIE Reports

References: a. NSCID No. 1

b. IAC-D-45/12, Revision 11 of Part II, 1 October 1957

l. CIA proposes that certain national intelligence publications be given a wider dissemination to high-level government officials. After a thorough review of the missions of the various departments and agencies, the NIS Committee selected the following additional officials to receive NIS Chapters I (Summary Chapter) by reason of their responsibilities in formulating and executing various aspects of U.S. foreign policy, or because their responsibilities are affected by the international position of the U.S.:

Secretary of the Treasury
Secretary of the Interior
Secretary of Agriculture
Secretary of Commerce
Secretary of Health, Education, and Welfare
Director, Office of Defense Mobilization
Director of the Budget
Chairman, Civil Aeronautics Board
President, Export-Import Bank of Washington
Chairman, Federal Communications Commission
Chairman, Board of Governors of the Federal Reserve System
Director, National Science Foundation
Chairman, U.S. Tariff Commission

2. CIA has also been studying the problem of the dissemination of NIE's and SNIE's in order to determine if these publications should be sent to a wider selection of these same officials, on a need-to-know basis, in order to provide them intelligence support in matters in which the responsibilities of their departments and agencies affect U.S.

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IAC-D-118 28 April 1958

national policy. The Secretary of the Treasury, Director of the Budget, and the Director of the Office of Defens: Mobilization now receive these estimates. It is proposed that the IAC hereafter give consideration to disseminating on an ad hoc basis specific estimates to other officials on this list who might benefit from such intelligence support.

- No specific formal action by the IAC is required in regard to the dissemination of NIS Chapter I, as outlined in paragraph 1, since the NIS Committee has determined the need-to-know of those US government officials (IAC-D-45/12.17, Revised, 27 February 1956, as approved by the IAC on 12 March 1956). However, with respect to the dissemination to such officials of NIE's and SNIE's, it is requested that the IAC approve in principle the proposal outlined in paragraph 2. Potential recipients of national intelligence publications may then be advised to expect to receive and make any necessary arrangements for handling of classified material of this general sensitivity. We would propose initially to forward letters along the lines of the attached draft letter to the officials named in paragraph I above. Specific recommendations for the release of particular estimates to one or more of these officials normally would be presented to the IAC for its consideration (in accord with paragraph 6 of the new NSCID No. 1, dated 1 April 1958) either at the meeting at which an estimate is approved or at a later meeting when the question of release to foreign governments is reviewed.
- 4. We believe that the recent NIE 100-58, "Estimate of the World Situation," would be an appropriate estimate to distribute initially to the officials listed above. Consequently the IAC at an early meeting will be asked to (a) approve the principle of distributing NIE's and SNIE's to certain US officials on an ad hoc basis as outlined in the preceding paragraphs and (b) approve the release of NIE 100-58 to the officials indicated in paragraph 1.

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Acting Secretary	

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D R Attachment to IAC-D-118 28 April 1958

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The Honorable Sinclair Weeks Secretary of Commerce Washington 25, D. C.

Dear Mr. Weeks:

It has come to my attention that you do not now receive certain national intelligence publications which I believe you and your principal advisers might find useful in discharging your responsibilities relating to foreign policy matters.

I plan to send to you from time to time two types of the most authoritative intelligence publications produced by the U.S. Government. These are National Intelligence Estimates, dealing with specific situations and problems abroad affecting U.S. national interests, and Chapters I (Brief) of the National Intelligence Survey (NIS) which give basic intelligence data and analysis on a country-by-country basis.

National Intelligence Estimates are frequently prepared at the request of members of the NSC and generally deal with problems affecting the considerations of that body. Hereafter, any of these estimates which may touch upon your areas of responsibility will be forwarded to you. For the present we are enclosing a copy of NIE 100-58, "Estimate of the World Situation," which may be of general interest to you.

The NIS is used as the standard basic intelligence reference by the Departments of State and Defense, the Joint Chiefs of Staff, and U.S. Intelligence agencies. I am enclosing the NIS Chapter I as an example of this kind of intelligence. The accompanying NIS Reference Guide will give you further particulars regarding the NIS program and its current status.

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Sincerely,

Allen W. Dulles
Director

Enclosures:

- 1. NIE 100-58, "Estimate of the World Situation"
- 2. Chapter I on
- 3. NIS Reference Guide

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IAC-D-117 1 April 1958

INTELLIGENCE ADVISORY COMMITTEE

Proposed Subject for Critical Collection

Problems Committee Consideration

The proposal outlined in the attached memorandum will be placed on the agenda of an early IAC meeting (probably 8 April), for review and action with respect to the specific recommendations of General Schow (para. 4).

•	JOHN HEIRES Secretary	
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IAC-D-117 1 April 1958

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DEPARTMENT OF THE ARMY

Office of the Assistant Chief of Staff, Intelligence Washington 25, D. C.

Mar 27 1958

MEMORANDUM FOR: Chairman, Intelligence Advisory Committee

SUBJECT

: Proposed Subject for Critical Collection Problems Committee Consideration (U)

- 1. An Earth Satellite Reconnaissance System appears to offer an excellent potential for collection of high priority intelligence information. To make this potential most responsive to national intelligence requirements, two actions on the part of Intelligence Advisory Committee collection agencies appear to be necessary.
 - a. To develop national intelligence collection requirements, in order of priority, which may be satisfied by a Satellite system in consonance with its technological growth.
 - b. To guide the agency charged with development of the system by suggesting the types of instrumentation and data processing systems required to accomplish the collection mission and by suggesting the phasing of their development.
- 2. The payloads which should be considered include but need not be limited to:
 - a. Instrumentation capable of determining precise geodetic data as required to assist all of the Services in the performance of their respective operational missions.
 - b. High-resolution photography, and a means of transmitting such photography to ground stations with acceptable degradation.

c. COMINT

- d. ELINT
- e. Infrared
- f. Instrumentation capable of providing information required to enable accurate long range weather predictions.
- g. Instrumentation capable of providing a fast and reliable means of transmitting critical intelligence information.
- 3. Equal in importance to the instrumentation of the satellite itself is the development of a photographic processing system which will enable rapid and accurate evaluation of the mass of photography of which a well-instrumented satellite may be capable. Development of such a system concurrent with the development of photographic capabilities appears to be mandatory.
- 4. It is recommended that the Intelligence Advisory Committee charge the Critical Collection Problems Committee with the mission of:
 - a. Determining the intelligence collection requirements which the Earth Satellite Reconnaissance System should be used to satisfy.
 - b. Suggesting the types of instrumentation which should be developed and the scheduling which will be most responsive to highest priority intelligence needs.
 - c. Determining the requirements which a photographic processing system must be designed to meet.
 - d. Recommending to the Intelligence Advisory Committee appropriate courses of action for solution of the above problems.

/s/
ROBERT A. SCHOW
Major General, GS
ACofS, Intelligence